

**DEPARTMENT OF LAND AND NATURAL RESOURCES**  
**Earthquake Damage Daily Report**  
**Date: 11/14/06**

Control #	Island	District	Facility Description	Project Description	County	Category	Other Comments	Latest Action Taken
01	Hawaii	North Kona	Recreational Facility (pier)	Kailua-Kona Pier - Structural assessment, design, and construction to repair earthquake damage to facility.	Hawaii	B		Assessment/Report/Estimate completed. Report available at <a href="http://www.hawaii.gov/dlnr/reports/earthquake/index.html">http://www.hawaii.gov/dlnr/reports/earthquake/index.html</a>
02	Hawaii	South Kohala	Recreational Facility (pier)	North Kawaihae SBH - Structural assessment of facilities, design, and construction to repair earthquake damage to facility.	Hawaii	B		Assessment/Report/Estimate completed. Report available at <a href="http://www.hawaii.gov/dlnr/reports/earthquake/index.html">http://www.hawaii.gov/dlnr/reports/earthquake/index.html</a>
03	Hawaii	South Kohala	Recreational Facility (pier)	Has been combined with #02	Hawaii			
04	Hawaii	South Kona	Safety Zone	Buoys and moorings at Kealakekua Bay, in conjunction with State Parks rock fall assessment and safety measures	Hawaii	B		DOBOR borrowed temporary buoys from the Iron Man. Coast Guard approved buoys. Placement occurred 11/3/06. Adjustments made 11/6/06.
05	Hawaii	Various	Various	Inspection of facilities, infrastructure, trails and lands for damages, public safety, signage and posting.	Hawaii	B		Initial Assessment completed. Initiated short term repairs as staff and funding permitted. Long-term repairs waiting pending additional funds.
06	Hawaii	North Kona	Recreational Facility (building)	Facilities Repair - Puu Waawaa Cabin Damage - Repair of broken pipes.	Hawaii	E		Repair completed 10/20.
07	Hawaii	North Kona	Recreational Facility (building)	Facilities Repair - Honuaua Cabin water tank removal, Demolish water tank and dispose of debris	Hawaii	E		Repair pending availability of field crew.
08	Hawaii	North Kohala	Recreational Facility (parking lot)	Pololu Parking Lot - level and repave parking lot, rebuild retaining wall.	Hawaii	G	HDOT has combined Road and Parking Lot repairs.	HDOT has FINISHED road, parking lot-lookout repairs. HDOT to open road and parking lot on Friday 11/3/06. DOFAW trail to remain closed until repairs done. Need emergency funding to repair trail. Anticipate over 100 cars/weekend day visitation and estimated 50% use trail when open.
09	Hawaii	North Kohala	Recreational Facility (trail)	Pololu Trail - reroute trail, remove debris and scale slopes above trail.	Hawaii	G		Closed to public - waiting for additional funding for repairs.
10	Hawaii	North Kohala	Recreational Facility (trail)	Kohala Ditch Trail - clearing landslide, restore trail grade and replace 3 bridges.	Hawaii	G		Closed to public - waiting for additional funding for repairs.
11	Hawaii	North Kohala	Recreational Facility (trail)	Alakahakai Trail - reroute trail, signage and monitor	Hawaii	G		Closed to public - waiting for landslide to stabilize to remove debris and reroute.
12	Hawaii	North Kohala	Recreational Facility (trail)	Kapaloa Falls Trail - clearing landslide debris, restore trail grade, signage and scale area above trail and replace bridge.	Hawaii	G		Closed to public - waiting for additional funding for repairs.
13	Hawaii	Hamakua	Recreational Facility (trail/road)	Mauna Kea Hunting Road - clearing landslide debris from roadway.	Hawaii	C		
14	Hawaii	North Kohala	Recreational Facility (trail)	White Road Trail - clearing landslide debris, restore trail grade, scale slide area and replace signage. Design and Construction.	Hawaii	G		Closed to public - waiting for additional funding for repairs.
15	Hawaii	North Kona	Drainage	Honuaua Forest Reserve - clearing collapsed rockwall debris from boundary and restoring drainage	Hawaii	A		Waiting for availability of equipment.
16	Hawaii	North Kona	Reservoir	Waikoloa Reservoir 1&2. Staff responded to provide assistance to command post for draining reservoirs	Hawaii	B		No further action required of DOFAW.
17	Hawaii	North Kohala	Recreational Facility (trail)	Muliwai Trail - assessment and debris removal and monitor	Hawaii	G		closed to public - waiting for landslide to stabilize to remove debris.
18	Hawaii	North Kohala	FEMA Operations Center	Assist with obtaining use of Waimea Hunter Ed building for FEMA operations center.	Hawaii	G		DOFAW Waimea Staff assisted FEMA.
19	Hawaii	Hamakua	Stream	Waipio Valley - landslide has partially blocked streams in the Waipio, Pololu, and Waimanu Valleys.	Hawaii	B		DLNR Staff coordinating with Hawaii County Civil Defense to provide assessment and response if conditions warrant. DOFAW assisting Hawaii County Civil Defense in assessment and possible debris clearing procedures as needed. Site under monitoring by Hawaii County Civil Defense.

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20	Hawaii	Hamakua	Recreational Facility (building)	Minor repairs to Keanakolu Cabins	Hawaii	E		Carpenter and helper repair pipes and foundation. Will repair tank and toilet pipes later.
21	Hawaii	Kona	Historic rock wall	Kuakini Wall	Hawaii	G		Assessing if rebuilding is possible or desirable
22	Hawaii	Hawaii	Historic & Cultural Sites	Damage Assessment Contract for 142 historic sites.	Hawaii	G	Initial assessment with a possible Joint FEMA Civil defense reassessment required	
23	Hawaii	South Kona	Kealahou Bay	Historic Site. Rock fall assessment, signage, safety measures, etc.	Hawaii	G	Awaiting Earth-Tec invoices. Follow historical consultation process.	Recommend creation of a water safety zone to keep swimmers/boaters away from the rock fall zone. 10/26 DLNR issued an order that creates ocean and land safety zones within Kealahou Bay that will be closed to the public. The order closes public access to the Pali and Kaawaloa flat land sections within the Kealahou Bay State Historical Park, until DLNR determines that the closed ocean waters and land may be safely reopened for public use. Geologists recommend keeping Kaawaloa Flat closed for 1 month or until the threat of aftershocks has passed. DLNR toured with FEMA on Mon. 11/13/06
24	Hawaii	South Kona	Kealahou Bay	Historic Site - Cliff face restoration	Hawaii	G	Follow historical consultation process.	DLNR SP archeologists informed and to begin appropriate process. Further inspection awaiting safety from falling rocks. DLNR toured with FEMA on Mon. 11/13/06
25	Hawaii	South Kona	Kealahou Bay	Historic Site - Rock Fall mitigation, slope stabilization	Hawaii	G	Need rock fall contractor formal evaluation.	Mitigation measure(s) to be determined. DLNR toured with FEMA on Mon. 11/13/06
26	Hawaii	North Kona	Hulihe'e Palace	Historic Site.	Hawaii	G	Palace closed for safety due to lack of structural integrity of the building.	Cost estimate from Daughters of Hawaii structural engineering report. DLNR toured with FEMA on Mon. 11/13/06. Report available online at <a href="http://www.hawaii.gov/dlnr/reports/earthquake/index.html">http://www.hawaii.gov/dlnr/reports/earthquake/index.html</a> .
27	Hawaii	East Hawaii	Recreational Facility	Kalopa - Chimney in the dining pavilion has sustained some damage.	Hawaii	G	Dining pavilion services all the cabins at Kalopa.	
28	Hawaii	South Kohala	Hapuna Beach Park	Hapuna Beach State Recreation Area. A- Frame Shelter repair, Beach Park comfort station wall, electrical, roof, concession building, and pavilions.	Hawaii	G	Pavilions to be evaluated, light damage. Earth-Tec inspected w/ DLNR staff.	Pavilions to be reinspected due to evidence of spalling concrete. Contractors to be hired.
29	Hawaii	North Kohala	Kamehameha Birthsite & Mookini Heiau	Kohala Historical Sites State Monument - Kamehameha Birthsite rock wall restoration, Mookini Heiau restoration	Hawaii	G	Follow historical consultation process. Earth-Tec inspected w/ DLNR staff. Received consultant report on both Kamehameha Birthsite and Mookini Heiau.	DLNR SP archeologists informed and to begin appropriate process. Report available online at <a href="http://www.hawaii.gov/dlnr/reports/earthquake/index.html">http://www.hawaii.gov/dlnr/reports/earthquake/index.html</a>
30	Hawaii	North Kohala	Lapakahi	Lapakahi State Historical Park - Rock wall restoration	Hawaii	G	Follow historical consultation process. Earth-Tec inspected w/ DLNR staff	A volunteer group has proposed to help. DLNR SP archeologists informed and to begin appropriate process. Report available online at <a href="http://www.hawaii.gov/dlnr/reports/earthquake/index.html">http://www.hawaii.gov/dlnr/reports/earthquake/index.html</a>
31	Oahu	Honolulu	Iolani Palace and related buildings	Historic Structure, Old Archives, Iolani Palace, Iolani Barracks	Honolulu	G	DAGS assisted FEMA in inspecting Iolani Palace, Old Archives, Iolani Barracks,	
32	Kauai	Hanalei	Recreational Facility (trail)	Kalalau Trail survey	Kauai	G		No damage, trail was temporarily closed for survey to ensure public safety for hikers.
33	Maui	South Shore	Makena	Puu Olai Landslide, Big Beach, Black Sand Beach	Maui	G	Black Sand Beach and Puu Olai closed. Earth Tech to inspect.	Area closed. Earth Tech reported findings and cost estimates. Earth Tech conducted aerial and land surveys Fri. 10-27, awaiting formal report. Black Beach side prone to cinder slides that may continue. Big Beach side may require hydraulic or scaling intervention. Signage is in place.
34	Oahu	Honolulu	Landslide	Landslide damage in Makiki and estimated cost associated to take corrective action	Oahu	B	TMK(1)-2-46-2:33	Working with Board of Water Supply (Pipe found located under cinder slide). Consultant is on board and currently assessing the damages and plans for corrective actions.

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35	Statewide	_	_	DOCARE staff time - OT	Statewide	B		
36	Statewide	_	_	Initial General Assessments of Earthquake Damages and Inspection of Trail closures and Public Safety, Staff Time, Vehicle usage.	Statewide	B		
37	Statewide	_	_	Statewide dam inspections- all Islands	Statewide	B	PO# C31973 ,10/16/06, to Army Corps of Engineer	
38	Statewide	_	_	Statewide emergency dam safety inspections	Statewide	B	PO# C319990 ,10/18/06, US Bureau of Reclamation	
39	Statewide	_	_	Statewide emergency dam safety inspections DLNR staff costs includes OT/Per diem/Travel expenses	Statewide	B		
40	Statewide	_	_	Statewide emergency dam safety inspections - Private consultants	Statewide	B		

  

Description	Category
Debris removal	A
Emergency Protective Measures	B
Roads and Bridges	C
Water Control Facilities	D
Buildings and Equipment	E
Utilities	F
Other - Parks, Recreational Facilities, etc.	G

Control Number - Will be the number used by SCD and FEMA to identify DLNR project # \_\_. New projects (40 +) will follow in order and therefore may not be arranged by county and then division.